



FRONTEND 2011

HTML5 DESIGN



Christopher Schmitt | <http://twitter.com/@teleject>



THINGS ARE GOOD
BETWEEN US, XHTML,
RIGHT?
I MEAN. WE GET ALONG WELL.
AND WE BOTH LIKE STUFF.

<http://dev.opera.com/articles/view/mama-markup-validation-report/>

PAIN 100%

100% Natural

NET WT. 3.75 OZ. (107G) HOT SAUCE

“THE ATTEMPT TO GET THE
WORLD TO SWITCH TO XML,
INCLUDING QUOTES AROUND
ATTRIBUTE VALUES AND
SLASHES IN EMPTY TAGS AND
NAMESPACES ALL AT ONCE
DIDN'T WORK.”

A portrait of Sir Tim Berners-Lee, an older man with glasses and short hair, looking slightly upwards and to the right. He is wearing a light-colored shirt.

SIR TIM BERNERS-LEE

Know Your Adoption Rate







BBC – Radio Labs – Remov...

[BBC Home](#) [Search](#) [Explore the BBC](#)

radiolabs

[PREVIOUS](#) | [MAIN](#) | [NEXT](#)

Removing Microform bbc.co.uk/programmes

by Michael Smethurst | 23 Jun 08

Since [/programmes](#) first went live we've been able to add machine data to pages as a lightweight API. We've added a microformat to add start times, end times and other data to pages.

Unfortunately there have been a [number of concerns](#) over hCalendar's use of the [abbreviation design pattern](#). This uses the HTML abbreviation element to add machine data to pages. Our concerns were:

- the effect on blind users using screen readers with abbreviation expansion turned on where abbreviations designed for machines would be read out
- the effect on partially sighted users using screen readers where tool tips of abbreviations designed for machines would be read out
- the effect of incomprehensible tooltips on users with cognitive disabilities
- the potential fencing off of abbreviations to domains that need them (travel - [airport codes](#), finance - [ticker symbols](#) etc)

Until these issues are resolved the [BBC semantic markup standards](#) have been updated to prevent the use of non-human-readable text in abbreviations. As I type the revised standard has not been published—I'll update this post with a link when that happens. Updated standard is [here](#). For this reason we've taken the decision to remove all microformats from the BBC website.

[About the BBC Radio Labs blog](#)
BBC Radio Labs is from BBC Audio & Music Interactive. This is where we...

4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	31

RECENT ENTRIES

- Better audio for BBC Radio online
- How we make websites
- Visual Radio - Phase 1 Final Thoughts
- Visualising Radio - delivering video and audio
- How visual radio works

RECENT COMMENTS

- tristanf on We're Playing Your



web 2.0

YouTube - "Chocolate Rain..."

Broadcast Yourself™
Worldwide | English(1) [Email](#) [teleject](#) [Account](#) [QuickList \(0\)](#) [Help](#) [Sign Out](#)[Home](#) [Videos](#) [Channels](#) [Community](#)[Search](#)[Upload](#)

"Chocolate Rain" Original Song by Tay Zonday

"Chocolate Rain"
Original Song By
TAY ZONDAY

0:07 / 4:52

This is a video response to "Explode" Original Song by Tay Zonday

Rate: ★★★★☆ 186,878 ratings

Views: 34,889,853

[Share](#)[Favorite](#)[Playlists](#)[Flag](#)[Send Video](#)[MySpace](#)[Facebook](#)[more share options](#)[Also Watching Now \(1\)](#)Active Sharing Off [\(Change\)](#)

Advertisement



Add Tay on FACEBOOK!
TAYZONDAY.COM

[TayZonday](#)

April 22, 2007

[\(more info\)](#)[Subscribe](#)

GET RINGTONES!!: <http://tinyurl.com/5nz634> REMIX
 ALBUM!! <http://www.playtay.com/> SHIRTS!!
<http://www.tayshirt.net> SHIRTS!! FREE MP3! Right-click and SAVE! <http://www.tayzonday.net/Ta...> This MP3...

URL <http://www.youtube.com/watch?v=EwTZ2xpQwpA>

Embed <object width="425" height="344"><param



More From: TayZonday



"Remembering You" Original
 Song By Tay Zonday
 285,300 views

BLUEPRINTS VS REALITY



<http://www.amazon.com/gp/product/0140139966>

“TAKE CARE
OF THE LUXURIES AND
THE NECESSITIES WILL TAKE
CARE OF THEMSELVES.”

FRANK LLOYD WRIGHT

AGENDA ITEMS

- What's different from XHTML to HTML5
- Building with HTML5 (You are here.)
- Video
- Audio
- GeoLocation
- Prizes!



<http://interactwithwebstandards.com/>

BUILDING WITH HTML5

DOCTYPE

HTML 4.01 Transitional DTD:

```
<!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN"  
"http://www.w3.org/TR/1999/REC-html401-19991224/loose.dtd">
```

XHTML 1.0 Transitional DTD:

```
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN"  
"http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">
```

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="utf-8">
  <title>AUSTIN, TX BBQ RESTAURANTS</title>
</head>
<body>
  <h1>....</h1>
  <p>...</p>
</body>
</html>
```

EXERCISE

- Go to HTML validator at

http://validator.w3.org/#validate_by_input

- Then type the following HTML (below) and hit validate:

```
<!DOCTYPE html>
<title>Small HTML5</title>
<p>Hello world</p>
```



[Valid] Markup Validation of uplo...



Markup Validation Service

Check the markup (HTML, XHTML, ...) of Web documents

Jump To: Notes and Potential Issues

Congratulations · Icons

This document was successfully checked as HTML5!**Result:** Passed, 3 warning(s)<!DOCTYPE html>
<title>Small HTML5</title>
<p>Hello world</p>**Source :****Encoding :** utf-8

(detect automatically)

Dootype : HTML5

(detect automatically)

Root Element: html

The W3C validators are hosted on server technology donated by HP, and supported by community donations.

[Donate](#) and help us build better tools for a better web.**Options** Show Source Show Outline List Messages Sequentially Group Error Messages by Type Validate error pages Verbose Output Clean up Markup with HTML Tidy



Markup Validation Service

Check the markup (HTML, XHTML, ...) of Web documents

[Jump To:](#)[Potential Issues](#)[Congratulations · Icons](#)

This document was successfully checked as HTML5!

Result: Passed 1 warning(s)

 Using experimental feature: *HTML5 Conformance Checker*.

The validator checked your document with an experimental feature: *HTML5 Conformance Checker*. This feature has been made available for your convenience, but be aware that it may be unreliable, or not perfectly up to date with the latest development of some cutting-edge technologies. If you find any issue with this feature, please [report them](#). Thank you.

ltration ullamcorper suscipit lobortis nisl ut aliquip ex ea commodo consequat. Duis autem vel eum iriure dolor

Encoding : utf-8

Doctype : HTML5

Root Element: html

Options

Show Source

Show Outline

List Messages Sequentially Group Error Messages by Type

Validate error pages

Verbose Output

Clean up Markup with HTML Tidy

[Help](#) on the options is available.

[Revalidate](#)

SYNTAX

```
<img src=“file.png” />
```

<video controls=“controls”>

EVERYTHING THAT
WAS BAD IN 1999
IS GOOD AGAIN

Britney Spears
...baby one more time



PAGE STRUCTURE

DIV ID="header"

DIV ID="nav"

DIV ID="section"

DIV ID="article"

DIV ID="sidecolumn"

DIV ID="footer"

<HEADER>

<NAV>

<SECTION>

<ARTICLE>

<ASIDE>

<FOOTER>

ARTICLE VS ASIDE VS SECTION

- Molly Holzschlag, Opera standards evangelist, says:
 - <section> clarifies <div>
 - <article> 'replaces' <div id="content">
 - <aside> 'replaces' <div id="sidebar">
- Chris Mills, Opera browser employee, plays it safe:
<http://boblet.tumblr.com/post/130610820/html5-structure>

WHAT ABOUT THE **DIVS**?

- Marc Grabanski, jQuery and HTML5 guy:
 - “div has no meaning whatsoever, so there is nothing semantic about divs”
- Bruce Lawson, Opera browser employee:
 - “Like all semantic questions, it depends on the context. If your only reason for wanting an element is to group stuff for styling, it's a div.”

```
<body>
  <b><header></header></b>
  <h1>Heading </h1>
  <b></header></b>
  <b><nav></nav></b>
  <h3>Site Navigation</h3>
  <ul>...</ul>
  <b></nav></b>
  <b><section></section></b>
    <b><article></article></b>
    <h3>Weblog Entry</h3>
    <b></article></b>
  <b></section></b>
  <b><aside></aside></b>
    <p>You are reading "Chocolate Rain", an entry posted on <b><time
datETIME="2009-03-05">5 March, 2009</time></b>, to the <a href="#">Misty
collection</a>. See other posts in <a href="#">this collection</a>.</p>
  <b></aside></b>
  <b><footer></footer></b>
    <p>...</p>
  <b></footer></b>
</body>
```

Heading

Site Navigation

- [Main](#)
- [Products](#)
- [Services](#)
- [Contact](#)
- [About](#)

Weblog Entry

Chocolate Rain

March 5, 2009

Epsum factorial non deposit quid pro quo hic escorol. Olypian quarrels et gorilla congolium sic ad nauseum. Souvlaki ignitus carborundum e pluribus unum. Defacto lingo est igaPay atinlay. Marquee selectus non provisio incongruous feline nolo contendre. Gratuitous octopus niacin, sodium glutimate. Quo meon an estimate et non interruptus stadium. Sic tempus fugit esperanto hiccup estrogen. Glorious baklava ex libris hup hey ad infinitum.

Non sequitur condominium facile et geranium incognito. Epsum factorial non deposit quid pro quo hic escorol. Marquee selectus non provisio incongruous feline nolo contendre Olypian quarrels et gorilla congolium sic ad nauseum. Souvlaki ignitus carborundum e pluribus unum.

About This Entry

You are reading "Chocolate Rain", an entry posted on 5th of March, 2009, to the [Misty collection](#). See other posts in [this collection](#)

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Heading

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```
<script type="text/javascript">  
document.createElement('header');  
document.createElement('nav');  
document.createElement('section');  
document.createElement('article');  
document.createElement('aside');  
document.createElement('footer');  
</script>
```

<http://ejohn.org/blog/html5-shiv/>



Heading

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- [About](#)

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Non sequitur condominium facile et geranium incognito. Epsum factorial non deposit quid pro quo hic escorol. Marquee selectus non provisio incongruous feline nolo contendre Olypian quarrels et gorilla congolium sic ad nauseum. Souvlaki ignitus carborundum e pluribus unum.

PROGRESSIVELY
ENHANCED HTML5
(INFUSED WITH SHIM)

“An indispensable tool.”

— Bruce Bowman, *Adobe BrowserLab Product Manager*

Modernizr is an open-source JavaScript library that helps you build the next generation of HTML5 and CSS3-powered websites.

Why use Modernizr?

Taking advantage of the new capabilities of HTML5 and CSS3 can mean sacrificing control over the experience in older browsers.

Modernizr 2 is your starting point for making the best websites and applications that work exactly right no matter what browser or device your visitors use.

Thanks to the new Media Query tests and built-in [YepNope.js](#) micro-library as

`Modernizr.load()`, you can now combine feature detection with media queries and conditional resource loading. That gives you the power and flexibility to optimize for every circumstance.

Check out the [full list of features](#) that Modernizr detects, or learn more about [conditional resource loading with Modernizr](#).

Download Modernizr 2

Use the commented, uncompressed Development version to develop with and learn from.

[View documentation](#)



Then, dive into the Production build tool and pick just the tests you need!



Follow us on Twitter



Contribute on GitHub



Subscribe with RSS



Donate to Modernizr

Get started with Modernizr

While Modernizr gives you finer control over the experience through JavaScript-driven feature detection, it is important to continue to use best practices throughout your development process. Use progressive enhancement wherever you can, and don't sacrifice accessibility for convenience or performance.

- [Documentation: Getting started](#)
- [Taking Advantage of HTML5 and CSS3 with Modernizr](#), Faruk Ateş
- [How to use Modernizr](#), Inayailli de León
- [wiki] [The Undetectables: features that cannot be detected](#)
- [wiki] [Cross-browser Polyfills](#)

Also check out our [Resources section](#).

Tip: use [haz.io](#) to quickly test your current browser's features.

Latest news

September 1st, 2011

[Modernizr and CDNs](#)

A quick guide on when to use which version of Modernizr: developer CDN and production.

PREVIOUS

June 1st, 2011

[Modernizr 2](#)

May 12th, 2011

[Modernizr 1.7 changelog](#)

January 17th, 2011

[Modernizr 2 Beta](#)

USED BY

CREATED BY



Faruk Ateş
Project Lead



Paul Irish
Lead Developer



Alex Sexton
Developer

<http://modernizr.com/>



Modernizr is the right micro-library to get you up and running.

```
<script src="-/js/modernizr.min.js" type="text/javascript" ></script>
```

```
<html lang="en" class=" canvas canvastext  
geolocation rgba hsla multiplebgs borderimage  
borderradius boxshadow opacity cssanimations  
csscolumns cssgradients cssreflections  
csstransforms csstransforms3d csstransitions  
video audio localstorage sessionstorage  
webworkers applicationcache fontface">
```

content { ... }

.geolocation content { ... }

```
<script src="modernizr.js"></script>
```

...

```
<script>
  if (!Modernizr.input.autofocus){
    $("#fieldname").focus();
  }
</script>
```

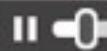
CLOSER LOOK AT HTML5 ELEMENTS

HTML5 AUDIO

```
<!DOCTYPE html>
<html lang="en">
<head>
<meta charset="utf-8">
<title>Basic HTML5 Web Document Structure</title>
</head>
<body>
<h1>Video Example</h1>
<b><audio src="html5test.ogg" autoplay controls>
    <a href="html5test.ogg">Download audio</a>
</b>
</body>
</html>
```



Example Heading



DEMO

HTML5 AUDIO

- AUDIO element attributes are SRC, AUTOBUFFER, AUTOPLAY, LOOP, CONTROLS
- If you don't have CONTROL, player becomes transparent

HTML5 AUDIO SUPPORT

	FF3.5+	S4+	Ch3+	Op10.5+	IE9
Ogg Vorbis	Y		Y	Y	
MP3		Y	Y		Y
WAV	Y	Y		Y	

SUPPORTING AUDIO

<**audio** controls autobuffer>

 <**source** src="html5audio.**mp3**" />

 <**source** src="html5audio.**ogg**" />

 <!-- include Adobe Flash player EMBED and OBJECT code
here -->

</**audio**>

HTML5 VIDEO

```
<!DOCTYPE html>
<html lang="en">
<head>
<meta charset="utf-8">
<title>Basic HTML5 Web Document Structure</title>
</head>
<body>
<h1>Video Example</h1>
<b><object width="425" height="344"><param name="movie" value="http://www.youtube.com/v/4GuKSqAg5xI&hl=en&fs=1"></param><param name="allowFullScreen" value="true"></param><param name="allowScriptAccess" value="always"></param><embed src="http://www.youtube.com/v/4GuKSqAg5xI&hl=en&fs=1" type="application/x-shockwave-flash" allowScriptAccess="always" allowfullscreen="true" width="425" height="344"></embed></object></b>
</body>
</html>
```

```
<!DOCTYPE html>
<html lang="en">
<head>
<meta charset="utf-8">
<title>Basic HTML5 Web Document Structure</title>
</head>
<body>
<h1>Video Example</h1>
<video src="html5test.ogg"
       width="320" height="240" controls
       poster="html5testvideoposter.jpg">
    <a href="html5testvideo.ogg">Download movie</a>
</video>
</body>
</html>
```

```
<!DOCTYPE html>
<html lang="en">
<head>
<meta charset="utf-8">
<title>Basic HTML5 Web Document Structure</title>
</head>
<body>
<h1>Video Example</h1>
<b><video src="html5test.ogg"
        width="320" height="240" controls
        poster="html5testvideoposter.jpg">
        <a href="html5testvideopath">Download movie</a>
</b>
</video>
</body>
</html>
```

DEMO

HTML5 VIDEO

- WIDTH and HEIGHT should be required, IMO, but movie plays anyway based on the values in the video file itself.
- Video formats may have their own posterframe. The browser should use that by default unless overridden by valid POSTER attribute value.
- Text can be included within VIDEO element to allow user to download video if their browser doesn't support.
- If you want to give users control, use CONTROL attribute.

HTML5 VIDEO

- Video can start automatically if using the AUTOPLAY="1" attribute and value.
- Spec provides for LOOP,AUTOBUFFER which also take a value of 0 or 1.
- Codecs support...

HTML5 VIDEO

“It would be helpful for interoperability if all browsers could support the same codecs. However, there are no known codecs that satisfy all the current players: we need a codec that is known to not require per-unit or per-distributor licensing, that is compatible with the open source development model, that is of sufficient quality as to be usable, and that is not an additional submarine patent risk for large companies. This is an ongoing issue and this section will be updated once more information is available.”

- <http://www.whatwg.org/specs/web-apps/current-work/#video-and-audio-codecs-for-video-elements>

CODECS

- Ogg (or “Vorbis”)
 - No need to worry about patents
- H.264
 - Created by the MPEG group
 - If you have blu-ray disc player, you are using it
- WebM
 - A wrapper for the VP8 video and Ogg audio streams

VIDEO CODEC SUPPORT

	FF3.6+	S	Ch5+	Op10.6+	IE9
Ogg	Y		Y	Y	
H.264		Y	Y*		Y
WebM	(W4.02+)		(Ch6+)	Y	

File Edit View History Bookmarks Tools Help



http://firefogg.org/make/index.html#



Google



Firefogg - Make Ogg Video in your Br...



Select new file

Save Ogg

NewOrleans2006.dv

▶ Preset: Web Video Theora, Vorbis 400kbs & 400px max width

▶ Encoding range

▶ Basic quality and resolution control


▶ Metadata for the clip

▶ Advanced video encoding controls

▶ Advanced audio encoding controls

<http://firefogg.org/>

VideoLAN

[overview](#) [download](#) [features](#) [screenshots](#) [streaming](#) [skins](#)

VLC media player

The cross-platform open-source multimedia framework, player and server

VLC media player is a highly portable **multimedia player** and **multimedia framework** capable of reading most audio and video formats (MPEG-2, MPEG-4, H.264, DivX, MPEG-1, mp3, ogg, aac ...) as well as **DVDs, Audio CDs VCDs**, and various **streaming protocols**. See the [full features list](#). It can also be used as a **media converter** or a [server to stream](#) in unicast or **multicast** in IPv4 or **IPv6** on networks.

If you like VLC, please rate it on the [Freshmeat](#), [versiontracker](#) or [AlternativeTo](#) entries!



Download VLC

Binaries

Select your operating system to download VLC binaries:

- [Windows](#)
- [Symbian](#)
- [Mac OS X](#)

VLC 1.0 downloads: **162,141,091**

4.7 downloads per second

GNU/Linux

- [Debian GNU/Linux](#)
- [Ubuntu](#)
- [Mandriva Linux](#)
- [Fedora](#)
- [SUSE Linux](#)
- [ALT Linux](#)
- [Arch Linux](#)

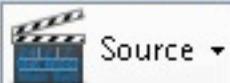
<http://www.videolan.org/vlc/>

Features

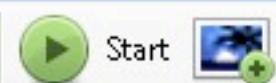
For more information about what features are supported by your operating system, please see the [full features list](#). You can also have a look at some [VLC screenshots](#).

Documentation

See the [documentation page](#).



Source



Start



Add to Queue



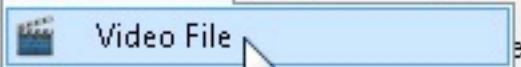
Show Queue



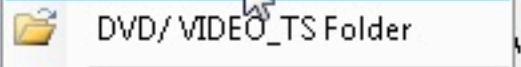
Preview



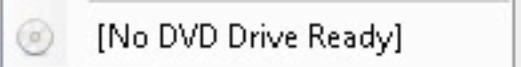
Activity Window



Video File



DVD/VIDEO_TS Folder



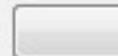
[No DVD Drive Ready]

e.

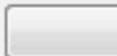
Angle:



Chapters:



through



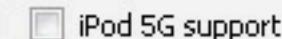
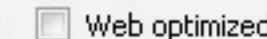
Duration: --:--:--

File:

Browse

Output Settings (Preset: Normal)

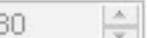
Container: MP4 File

**Picture** **Video Filters** **Video** **Audio** **Subtitles** **Chapters** **Advanced****Size**

Source: --

Aspect Ratio: --

Width: 480



Height: 0

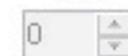
 Keep Aspect Ratio

Anamorphic: Strict

Display Size: 0x0

Cropping Automatic Custom

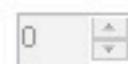
Top: 0



Left: 0



Right: 0



Bottom: 0

<http://handbrake.fr/>

LESSONS LEARNED

- Use VLC or Firefogg to encode common movie files types to OGG
- H.264 encoding? Use Handbrake
- If you are hot to trot for HTML5 Video, like, right now, check out Mark Pilgrim's tutorial:
<http://diveintohtml5.org/video.html>
- Good primer:
<http://dev.opera.com/articles/view/introduction-html5-video/>

YouTube – Broadcast Yourself.

Back Forward Reload Stop Home Print 1Password YouTube http://www.youtube.com/html5

YouTube – Broadcast Yourself. +

YouTube Broadcast Yourself™ [Home](#) [Videos](#) [Channels](#) [Shows](#) [Search](#) [Create Account](#) or [Sign In](#)

[Subscriptions](#) [History](#) [Upload](#)

YouTube HTML5 Video Player

This is an opt-in experiment for HTML5 support on YouTube. If you are using a supported browser, you can choose to use the HTML5 player instead of the Flash player for most videos. Your comments will help us improve and perfect the mixtures we're working on. So jump in, play around, and send your feedback directly to the brains behind the scenes.

Supported Browsers

Right now we support browsers that support both the video tag in HTML5 and the h.264 video codec. These include:

- Google Chrome
- Apple Safari (version 4+)
- Microsoft Internet Explorer with Google Chrome Frame installed ([Get Google Chrome Frame](#))

Updates!

- 1/27/2010: Fullscreen support enabled (if supported by browser).

Additional Restrictions (we are working on these!)

- Videos with ads are not supported (they will play in the Flash player)
- Fullscreen is not supported
- If you've opted in to other testtube experiments, you may not get the HTML5 player (Feather is supported, though)

You are not currently in the HTML5 beta.

[Join the HTML5 Beta](#)

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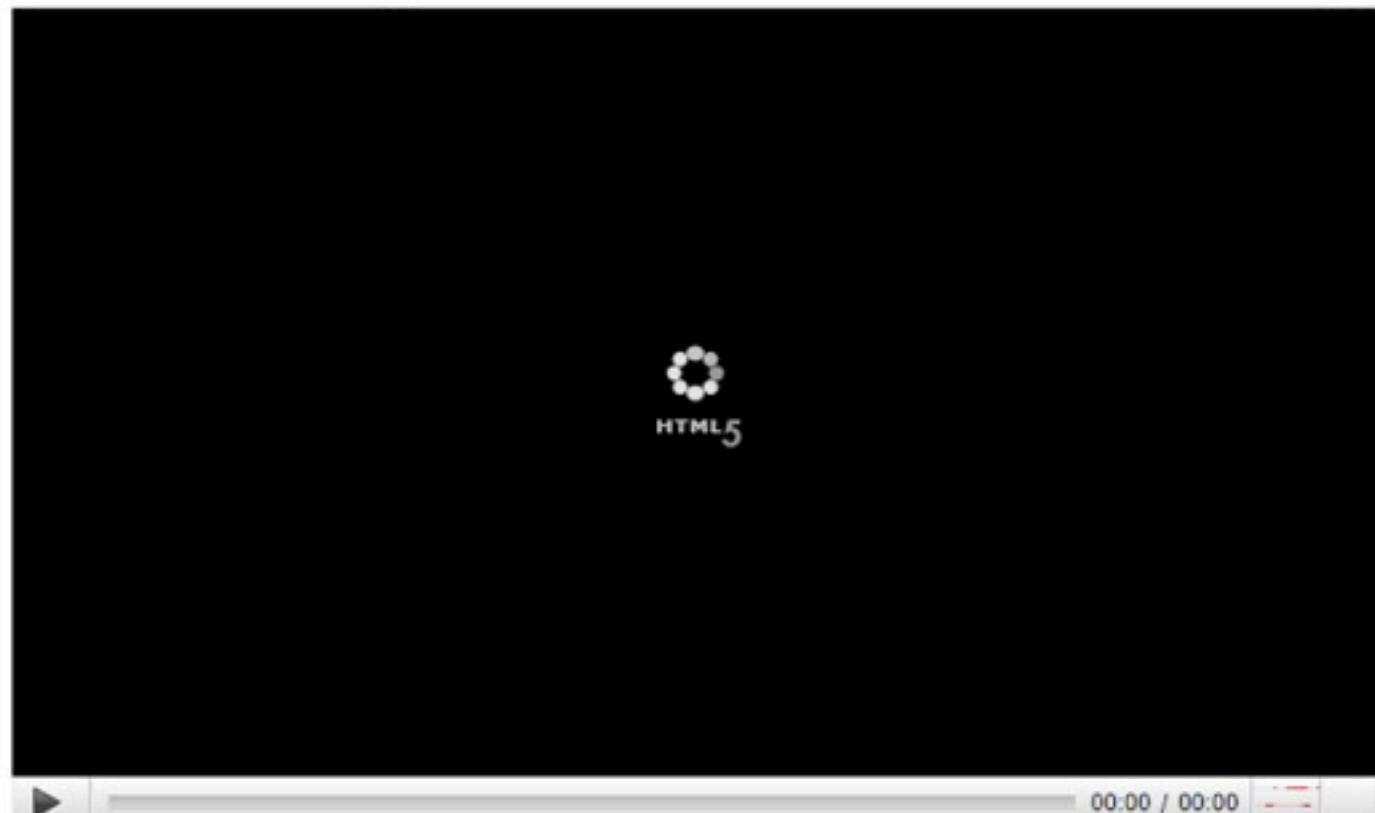
Video Speed Info



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Drunk Canadian begs for Taser



★★★★★ 136 ratings

14,135 views

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Dfanatic1 (2 seconds ago)

66

[Reply](#) | [Spam](#)**jimlan33**

February 16, 2010

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Phoenix International Airport 2/15/10

URL <http://www.youtube.com/watch?v=04QF9O>

Embed <object width="425" height="344"><param



► More From: **jimlan33**

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bludden[Me Getting TASERED! : Life Experiment](#)
912 views
lifeexperiment[Tal Bachman - She's So High](#)
1,700,701 views
TalBachmanVEVO[Bon Jovi - \(You Want To\) Make A Memory](#)
412,934 views
BonJoviVEVO[Three Days Grace - Home](#)

```
<script>
function playPause() {
    var myVideo = document.getElementsByTagName('video')[0];
    if (myVideo.paused)
        myVideo.play();
    else
        myVideo.pause();
}
</script>
```

```
<input type=button onclick="playPause()" value="Play/Pause"  
tabindex="0" />
```

HTML5 VIDEO & CAPTIONS

Home

Getting Started

- LD Basics
- ADHD Basics
- Questions + Answers
- Glossary

LD Topics

- About LD
- Accommodations & Modifications
- ADHD
- Adults with LD
- Behavior & Social Skills
- Classroom Management
- College & College Prep
- Early Identification
- English Language Learners & LD
- Evaluation / LD Testing
- Gifted & LD
- Homeschooling
- Homework Help
- IEPs
- Legislation & Policy
- Math & Dyscalculia
- Nonverbal LD

Captioned Media: Literacy Support for Diverse Learners

By: National Center for Technology Innovation and Center for Implementing Technology in Education (2010)

In a typical classroom, a teacher may find many students who are struggling readers, whether they are beginning readers, students with language-based learning disabilities, or students who are English language learners (ELLs). One motivating

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Lindamood-Bell
Learning Processes

yellow pages

[Captioning] has been shown to improve reading skills among adults who are non-readers.

available on television programming, live newscasts, movies, and sporting events.² Additionally, web-based applications have made it increasingly easy for producers to caption online video, opening up more options for accessible media.

The increased availability of captioned media, whether on educational videos, popular movies, or live television broadcasts, allows teachers to begin incorporating more accessible media easily into their classrooms. As more teachers began using captions in their classroom, many found that captions could help support a wide variety of learners, beyond their deaf or hard of hearing students.

The use of captioned or subtitled media can be a great tool for teachers looking to differentiate classroom instruction. Presenting information in multiple ways and using motivating media can help address the diverse needs of learners in the



1P

http://www.digital-web.com/articles/captions_flash_video/[home](#) [contact](#) [about](#) [events](#)

Captions for Video with Flash CS3

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Photos provided courtesy of
[iStockPhoto.com](#)

In: [Articles](#)& By [Tom Green](#)

Published on June 4, 2007

The hype that has sprung up around the release of Adobe's CS3 Studio products has virtually ignored the one feature that many people would instantly consider a critical reason for buying the Studio or the upgrade.

If you were to believe Adobe, this is the greatest software release of all time. Meanwhile, many consumers are excited about the new features in Dreamweaver CS3, Illustrator CS3, Photoshop CS3, Flash CS3, and Fireworks CS3. Having been involved in the testing process for the apps, I can be forgiven for my indifference to the chatter. When you use it, play with it, and crash it day in and day out, you become a bit jaded. At least I was until I dug into Flash for a book I was writing and discovered a feature that no one was talking about. (Don't believe me? As of this writing, it has yet to be mentioned by Adobe and was totally overlooked during the unveiling in March.) The feature: the captioning component in Flash Professional CS3.

Got something to say?

[Share your comments](#) on this topic
with other web professionals

The really great thing about this feature, from our perspective as designers and developers, is how simple it is to accomplish and manage. If the timing is out or a caption is wrong, you simply change a few words or numbers in the XML file.

Cherry Chocolate Rain - HTML5 Video with Captions demo

[toggle captions](#)

[switch subtitles on](#)

[switch subtitles off](#)

[show transcript](#)

English ▾



DEMO

QUICK & DIRTY CAPTIONING



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Dashboard

Inbox 0

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Gist

Blog

Help



Search...

johnmcc / jCaps

[Unwatch](#)[Fork](#)[Download Source](#)[6](#)[2](#)[Source](#)[Commits](#)[Network \(2\)](#)[Issues \(0\)](#)[Downloads \(3\)](#)[Wiki \(1\)](#)[Graphs](#)

Branch: master

Switch Branches (1) ▾ Switch Tags (3) ▾ Branch List

A jQuery plugin that makes it easy to work with captions for HTML5 video. — [Read more](#)[Read-Only](#)[HTTP Read-Only](#)<git://github.com/johnmcc/jCaps.git> This URL has **Read-Only** access

Added callback function to be called when caption changes. Fixed scope of currentText so that new caption is only appended when it changes (bugfix)



John McCollum (author)

about 18 hours ago

commit 1c317704ccaca6c7fa258337f9c6a2f8fb79a2e6
tree 1eleo4bd1bda8b95ee407150b613ef997b03eb33
parent eb04a9a02e9d2c6fdd89339a2ea0290f241a5456

[jCaps /](#)

name	age	message	history
README	March 29, 2010	Added support for .srt caption files [John McCollum]	
README~	March 29, 2010	Added support for .srt caption files [John McCollum]	
index.html	about 18 hours ago	Added callback function to be called when capti... [John McCollum]	
jquery.jcap.js	about 18 hours ago	Added callback function to be called when capti... [John McCollum]	
jquery.jcap.min.js			
leverage-a-synergy.ogv			
speechbubble.gif	February 20, 2010	warning - broken at the moment! [John McCollum]	
styles.css	5 days ago	Refactored timeupdate function [John McCollum]	

<http://github.com/johnmcc/jCaps>

t
alkan's introduction to th...

[AudioSwap](#)[Annotations](#)[Captions and Subtitles](#)[View on video page »](#)

s introduction to the 2010 online UX Web Summit

's introduction to the 2010 online U...



Available Caption Tracks

[English: Machine Transcription](#)[Download](#)

Add a Caption Track

[Add New Captions or Transcript](#)

0:00:00.470,0:00:02.070

Welcome to the US led senate

0:00:02.070,0:00:06.760

a day of practical advice on creating great
user experienced of the way

0:00:06.760,0:00:08.849

your house today are Christopher schmidt.

0:00:08.849,0:00:13.519

a veteran with designer who me my view is
the author of the CSS cookbook third edition

0:00:13.519,0:00:18.859

as partner in crime our styles who previously
helped organize stop by southwest

0:00:18.859,0:00:24.570

in fact it was at southwest southwest that
the dynamic duo first got the idea to organize

0:00:24.570,0:00:29.310

conferences that help people make better web
site they're more hospitable to humans

0:00:29.310,0:00:32.470

and those boren environments for humans

0:00:32.470,0:00:35.819

starting with this is his last summit in July
two thousand nine

0:00:35.819,0:00:41.550

they quickly expanded to cover topics ranging
from can go to a team of five and more

0:00:41.550,0:00:45.100

and I was delighted to learn that they were
inspired by head

SRT FILES

- SRT files are text files used in video playback; therefore, they do not contain any video data.
- Text file containing subtitles used by various video playback programs; supported by DivX, DVD, and other video formats;
- Includes the time each subtitle should be displayed followed by the text of the subtitles.
- Subtitle files are often named according to the language of the subtitles, i.e. "moviename-**eng.srt**" for English and "moviename-**ger.srt**" for German subtitles.

TRANSCRIPT-EN.SRT

1

00:00:00,000 --> 00:00:6,000

Allow me to introduce myself My name is Tay It's T-A-Y,T-A-Y to the Z

2

00:00:06,000 --> 00:00:9,000

This is the web and it's gonna murder your TV It was Chocolate Rain

3

00:00:09,500 --> 00:00:11,500

Wrote a song about that history Chocolate Rain

4

00:00:12,000 --> 00:00:15,000

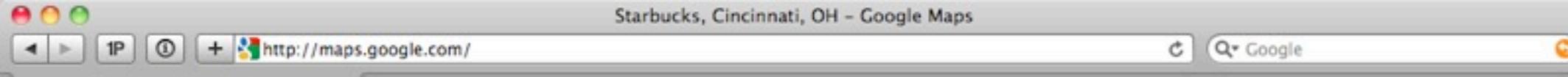
Now I'm paid a hefty hefty fee Chocolate Rain

```
<script src="http://ajax.googleapis.com/ajax/libs/jquery/1.4.1/jquery.js">  
</script>  
<script src="jquery.jcap.js"></script>
```

```
<video id="myVid" width="400" src="cherry-chocolate-  
rain.ogv" autobuffer controls>  
  <track src="transcript-en.srt" type="text/srt" language="en"  
role="textaudesc"></track>  
  <track src="transcript-gr.srt" type="text/srt" language="gr"  
role="textaudesc"></track>  
  <p>Alternative text...</p></video>
```

```
<video id="myVid" width="400" src="cherry-chocolate-rain.ogv"  
autobuffer controls>  
  <track src="transcript-en.srt" type="text/srt"  
language="en" role="textaudesc"></track>  
  <track src="transcript-gr.srt" type="text/srt"  
language="gr" role="textaudesc"></track>  
  <p>Alternative text...</p>  
</video>
```

HTML5 & GEOLOCATION



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Starbucks, near Cincinnati, OH

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[Starbucks.com](#)

Starbucks

[more info](#)

2692 Madison Rd # K2, Cincinnati, OH - (513) 631-3329

[1 review](#)

Starbucks

[more info](#)

202 W Mcmillan St, Cincinnati, OH - (513) 241-7015

[3 reviews](#)

"This location is my closest neighborhood Starbucks. I've walked out of this ..."

Starbucks

[more info](#)

580 Walnut St # P170, Cincinnati, OH - (513) 621-0567

[1 review](#)

Starbucks

[more info](#)

401 Vine St, Cincinnati, OH - (513) 929-0430

[1 review](#)

Starbucks

[more info](#)

201 E 4th St # B, Cincinnati, OH - (513) 241-4000

[1 review](#)

Starbucks

[more info](#)

3366 Erie Ave, Cincinnati, OH - (513) 533-3402

[1 review](#)

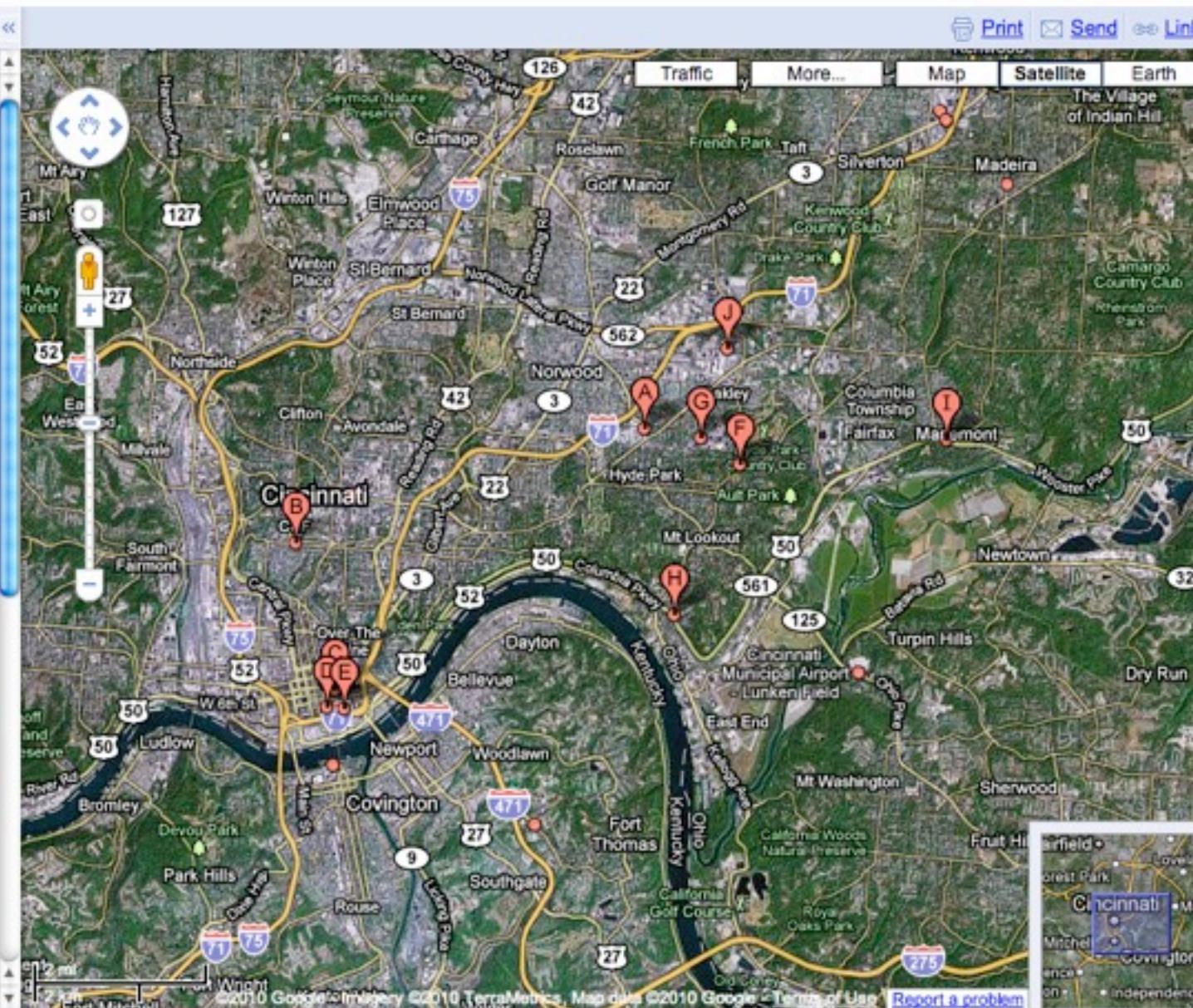
Starbucks

[more info](#)

3786 Paxton Ave # 1, Cincinnati, OH - (513) 321-3373

[1 review](#)

[starbucks, cinci...](#) | [starbucks](#)



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http://twitter.com/#

(1) Twitter / Home

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What's happening?

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Add your location



85

Tweet

Timeline

@Mentions

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1 new tweet



.jason

jason Calacanis

Go to # on this page



The website "http://twitter.com" would like to use your current location.

Request permission only once every 24 hours

Don't Allow

Allow

91

Tweet



Favorites 798

★ brucefloyd Zzzzzz...

@BreakingNews: WNBA crown

weets

Searches

Lists

3 new tweets

man by stop

@jasontanz, it's not the web that's gonna die, it's



Trends

Worldwide · change

Yom Kippur

Restart vaiado

Followers



Listed 17

Recently

Friends, re

```
if (navigator.geolocation) {  
  
    navigator.geolocation.getCurrentPosition(show_coordinates);  
  
    function show_coordinates(position){  
        alert('Your latitude is ' + position.coords.latitude + ' ' +  
            'and your longitude is ' + position.coords.longitude +  
            '.');  
    }  
}
```



location

Location Alert Box



<http://ion.christoperschmitt.com>

Your latitude is 30.380845600909087 and your longitude is 30.380845600909087.

OK



teleject's HTML5-GeoLocation-jQ...



teleject 15

Dashboard

Inbox 0

Account Settings

Log Out

Explore GitHub

Gist

Blog

Help

Search...

teleject / HTML5-GeoLocation-jQuery-Plugin

Admin

Unwatch

Fork

Pull Request

11

1

Source

Commits

Network (1)

Fork Queue

Issues (0)

Wiki (0)

Graphs

Branch: master

Switch Branches (1) ▾

Switch Tags (0)

Branch List

A jQuery plugin for sorting a list of addresses using HTML5 GeoLocation. — [Read more](#)[click here to add a homepage](#)

Downloads

SSH

HTTP

Git Read-Only

git@github.com:teleject/HTML5-GeoLocation-jQuery-Plugin

 This URL has **Read+Write** access

added link to simple demo



teleject (author)

4 days ago

commit d0f0e7bf76d878da3e65

tree abaeefbd71a793853fbc

parent cb868b7e90f9a810fd09

HTML5-GeoLocation-jQuery-Plugin /

name	age	message	history
README	4 days ago	added link to simple demo [teleject]	
jquery-location.1.0.0.js	4 days ago	first commit [teleject]	

README

HTML5 GeoLocation jQuery Plugin
<http://github.com/teleject/HTML5-GeoLocation-jQuery-Plugin>

<http://github.com/teleject/HTML5-GeoLocation-jQuery-Plugin>

- To get plugin to work on YOUR own site, you will need to get a Google Maps API registered to your domain:

<http://code.google.com/apis/maps/signup.html>

- Use Microformats' hCard for addresses

```
<div class="vcard">
  <a class="url fn n" href="http://www.theqcard.com/">
    <span class="given-name">Jane</span>
    <span class="additional-name"></span>
    <span class="family-name">Smith</span>
  </a>
  <div class="org">Old School BBQ and Grill</div>

  <div class="adr">
    <div class="street-address">2907 E MLK Jr Blvd.</div>
    <span class="locality">Austin</span>,
    <span class="region">TX</span>,
    <span class="postal-code">78702</span>
    <span class="country-name">USA</span>
  </div>
  <div class="tel">512-974-6830</div>
  <div class="note distance">
  </div> http://microformats.org/code/hcard/creator
</div>
```

```
<div id="locations2">  
  <ol>  
    <li><!-- Microformats address 1 --></li>  
    <li><!-- Microformats address 2 --></li>  
    <li><!-- Microformats address 3 --></li>  
    <li><!-- Microformats address 4 --></li>  
    ...  
  </ol>  
</div>
```

```
<script type="text/javascript" src="http://  
ajax.googleapis.com/ajax/libs/jquery/1.4.2/  
jquery.min.js"></script>  
<script type="text/javascript" src="js/jquery-location.  
1.0.0.js"></script>
```



e.g. "ajax apis" or "open source"

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Google Maps API Family

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Sign Up for the Google Maps API

The Google Maps API lets you embed Google Maps in your own web pages. A single Maps API key is valid for a single "directory" or domain. See this [FAQ](#) for more information. You must have a [Google Account](#) to get a Maps API key, and your API key will be connected to your Google Account.

Here are some highlights from the terms for those of you who aren't lawyers:

- **There is no limit on the number of page views you may generate per day using the Maps API.** See this [FAQ](#) for more information.
- **There is a limit on the number of geocode requests per day.** See this [FAQ](#) for more information.
- **The Maps API does not include advertising.** If we ever decide to change this policy, we will give you at least 90 days notice via the [announcements lists](#).
- If you use other APIs in conjunction with the Maps API, you should also review the terms for the other APIs. Note in particular that the [GoogleBar](#) in the JS Maps API uses the AJAX Search API, and that API has its own terms.
- **Your service must be freely accessible to end users.** To use Google mapping technology in other types of applications, please use [Google Maps API Premier](#). See this [FAQ](#) for more information.
- **You may not alter or obscure the logos or attribution on the map.**
- You must [indicate whether your application is using a sensor](#) (such as a GPS locator) to determine the user's location.
- You may use the API (except for the Static Maps API) in websites or in software applications. For websites, please sign up with the URL where your implementation can be found. For other software applications, please sign up with the URL of the page where your application can be downloaded.
- Google will upgrade the APIs periodically. To be notified of updates, please subscribe to the [announcements lists](#).
- Remember that we reserve the right to suspend or terminate your use of the service at any time, so please read through the [FAQ](#) and [forum posts](#) to decide whether your site meets the Terms of Use before you begin API integration.

Last updated: November 26, 2008

1. Your relationship with Google.

1.1 Use of the Service is Subject to these Terms. Your use of any of the Google Maps/Google Earth APIs (referred to in this document as the "**Maps API(s)**" or the "**Service**") is subject to the terms of a legal agreement between you and Google Inc., whose principal place of business is at 1600 Amphitheatre Parkway, Mountain View, California 94043, United States ("**Google**"). This legal agreement is referred to as the "**Terms**".

```
<script type="text/javascript" src="http://ajax.googleapis.com/ajax/libs/
jquery/1.4.2/jquery.min.js"></script>
<script type="text/javascript" src="js/jquery-location.1.0.0.js"></script>
<script type="text/javascript"$(document).ready(function()
  {
    $('#locations2').location({
      'apiKey' : 'YOUR_API_KEY_HERE'
    });
  });
</script>
```

Q CARD



105 E 5TH ST, AUSTIN, TX 78701, USA

RESTAURANT LISTINGS

Muck-N-Dave's Texas BBQ

1603 South Congress, Austin, TX 78704 USA
512-590-3387

~0.4 miles

The Shed BBQ Rolling Joint

1816 E 6th Street., Austin, TX, 78702 USA
504-432-4718

~1.5 miles

Old School BBQ and Grill

2326 E Cesar Chavez St, Austin, TX, 78702 USA
512-974-6830

~1.9 miles

Old School BBQ and Grill

2907 E MLK Jr Blvd., Austin, TX, 78702 USA
512-974-6830

~2 miles

Franklin Barbecue

3421 N. I-35, Austin, TX, 78751
512-653-1187

~2.7 miles

Snow's BBQ

516 Main Street, Lexington, TX 78947 USA
979-773-4640

~52.1 miles

<http://2010.incontrolconference.com/eats/>

```
<div class="vcard">
  <a class="url fn n" href="http://www.theqcard.com/">
    <span class="given-name">Jane</span>
    <span class="additional-name"></span>
    <span class="family-name">Smith</span>
  </a>
  <div class="org">Old School BBQ and Grill</div>

  <div class="adr" data-longitude="-97.723410" data-latitude="30.262098">
    <div class="street-address">2907 E MLK Jr Blvd.</div>
    <span class="locality">Austin</span>,
    <span class="region">TX</span>,
    <span class="postal-code">78702</span>
    <span class="country-name">USA</span>
  </div>
  <div class="tel">512-974-6830</div>
  <div class="note dista
    </div>
</div>
```

<http://geocoder.us/>

```
$('#locations').location(  
 {  
   apiKey: 'YOUR_API_KEY_HERE',  
   geodata: '#geodata', // site visitor's location  
   notification: '.notification', // progress indicator  
   recheck: '.recheck',  
   distance: '.distance', //where the distance appears  
   geoAdr: '.geoAdr', // longitude and latitude  
   listElement: 'li' // different listing element?  
 } );
```



XHTML, ...I THINK I WANT TO SEE
ANOTHER MARKUP SPEC.
97

TAKE AWAYS

- New HTML5 elements for improved semantics
- HTML5 Audio
- HTML5 Video
 - Online video with HTML+JS captioning
- HTML5 Geolocation

RECOMMENDED

- *Universal Design for Web Applications* by Matt May and Wendy Chisholm
- *Bulletproof Ajax* by Jeremy Keith
- *Designing with Progressive Enhancement* by Filament Group
- *Microformats Made Simple* by Emily Lewis

UPCOMING E4H EVENTS

- Online, live 3rd Annual CSS Summit on July 26-27th
- Online, live Mobile JavaScript Summit on Aug. 30th
- Online, live 2nd Annual Accessibility Summit on Sept. 27th
- More details at <http://twitter.com/@e4h>



THANK YOU!

Christopher Schmitt

schmitt@heatvision.com

<http://twitter.com/teleject>